



eBusiness Innovation DON Card Management



***“Adding Physical Security
Applications to the
Common Access Card”***

Presented by:
Gary P. Bruner, Project Manager
8 July 2003

Agenda

- Office Mission
- Guidance
- Framing the discussion
- The Requirements cycle
- Access control rudder orders
 - Increase security
 - Reduce manpower requirements
 - Reduce inconvenience to the member
- Common Access Card Pilots
 - Norfolk
 - Pacific Command
- What's next



DON eBusiness Operations Office Charter

21 September 2000

21 September 2000

Charter for the Department of the Navy eBusiness Operations Office

Mission:

The Department of the Navy (DON) Electronic Business (eBusiness) Operations Office is established to serve as a catalyst for implementing and integrating DON eBusiness efforts, highlighting emerging uses of electronic business (both from within DON/government and from the private sector), and making DON processes more efficient and effective. Further, the Office will centralize operational control of several card management and selected electronic transaction systems.

Background:

eBusiness is the interchange and processing of information to accomplish transactions based upon the application of information technologies. Further, an integral part of implementing eBusiness is the improvement or reengineering to streamline business processes using information technologies facilitating the electronic exchange of information. The Department of Defense (DoD) has adopted eBusiness as a means to create a possible bridge between today's legacy systems and a more modern environment.

eBusiness technologies are rapidly impacting every aspect of the Department of Defense. There has been more efficient exchange of business information, meeting warfighter requirements. Recognizing the opportunity for increased collaboration and teamwork, the eBusiness Operations Office will enhance business capabilities and facilitate their application in making Navy and Marine Corps business processes more efficient and effective.

An office is needed to centralize operational control of several card and selected electronic transaction systems. These functions and systems will provide a consistent and single voice to our Navy and Marine Corps customers and make business processes more efficient, and facilitate the evolution to future technological solutions.

Secretary of the Navy and Department of the Navy Chief of Staff
The Department of the Navy eBusiness Operations Office is hereby established at the Naval Air Systems Command, Mechanicsburg, PA.

The Office is headed by a flag officer designated as a Senior Executive Service member. The Office is staffed by a Senior Executive Service member and other civil service personnel. The Office draws primarily from the private industry expertise to support these efforts. The Office leverages key DON stakeholder resources and academia as appropriate.

"... serve as a catalyst for implementing and integrating DON eBusiness efforts ... facilitate the evolution to future technological solutions."

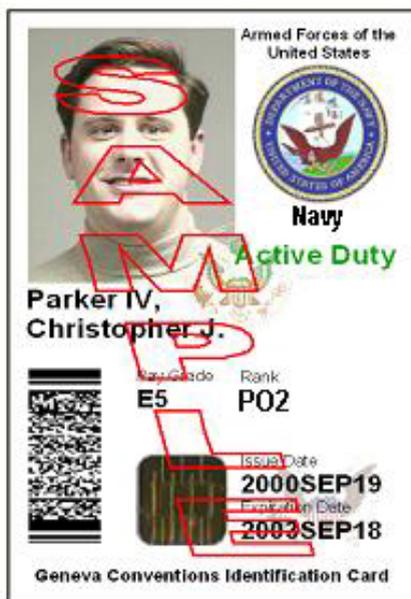
"... centralize operational control of card and selected electronic transaction systems."

Guidance ... Sez who!

DoD
Directive
8190.3

- The Common Access Card (CAC):
- Principal card for physical access
 - Plan for complete migration!

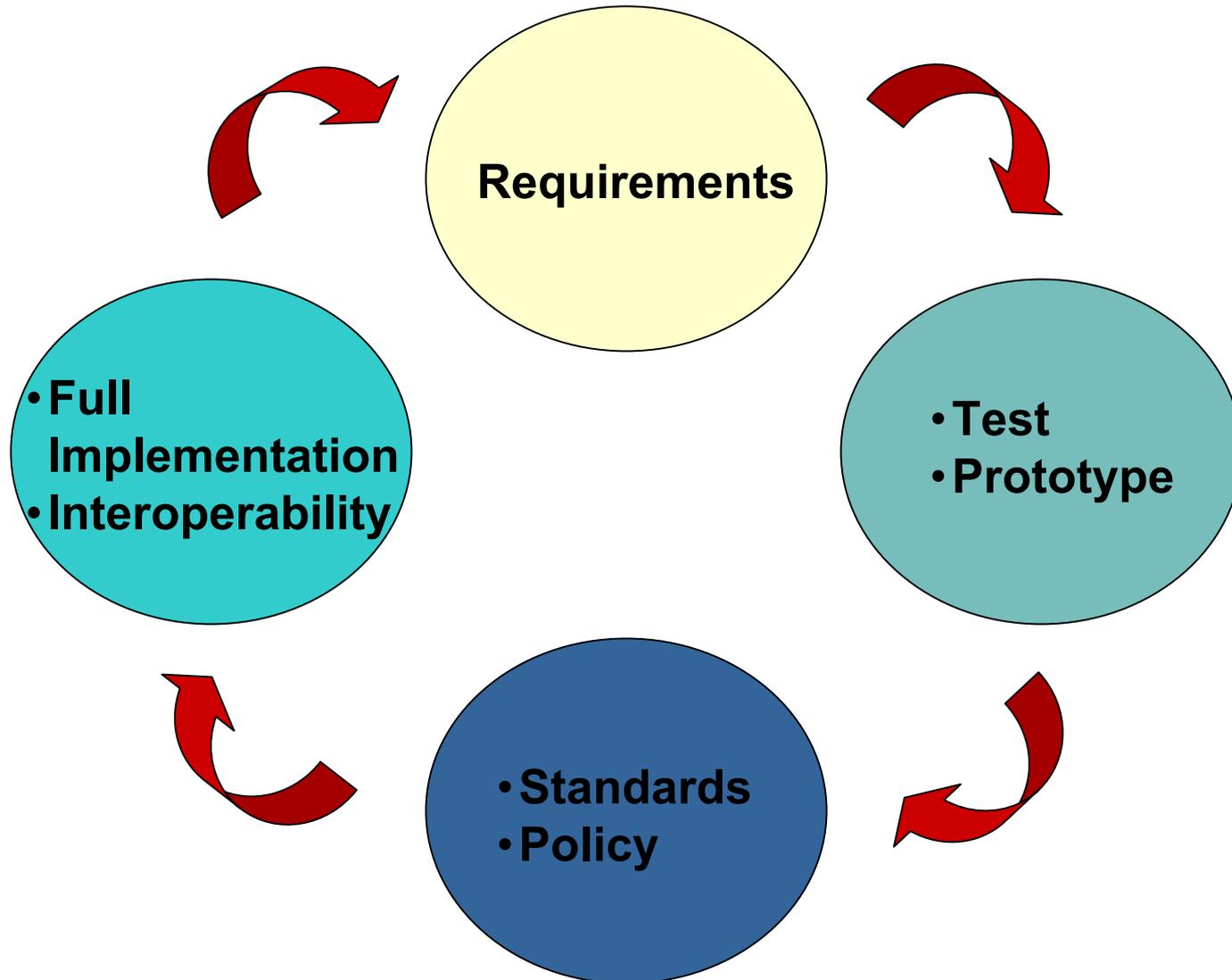
Look at Section
4.5.3!



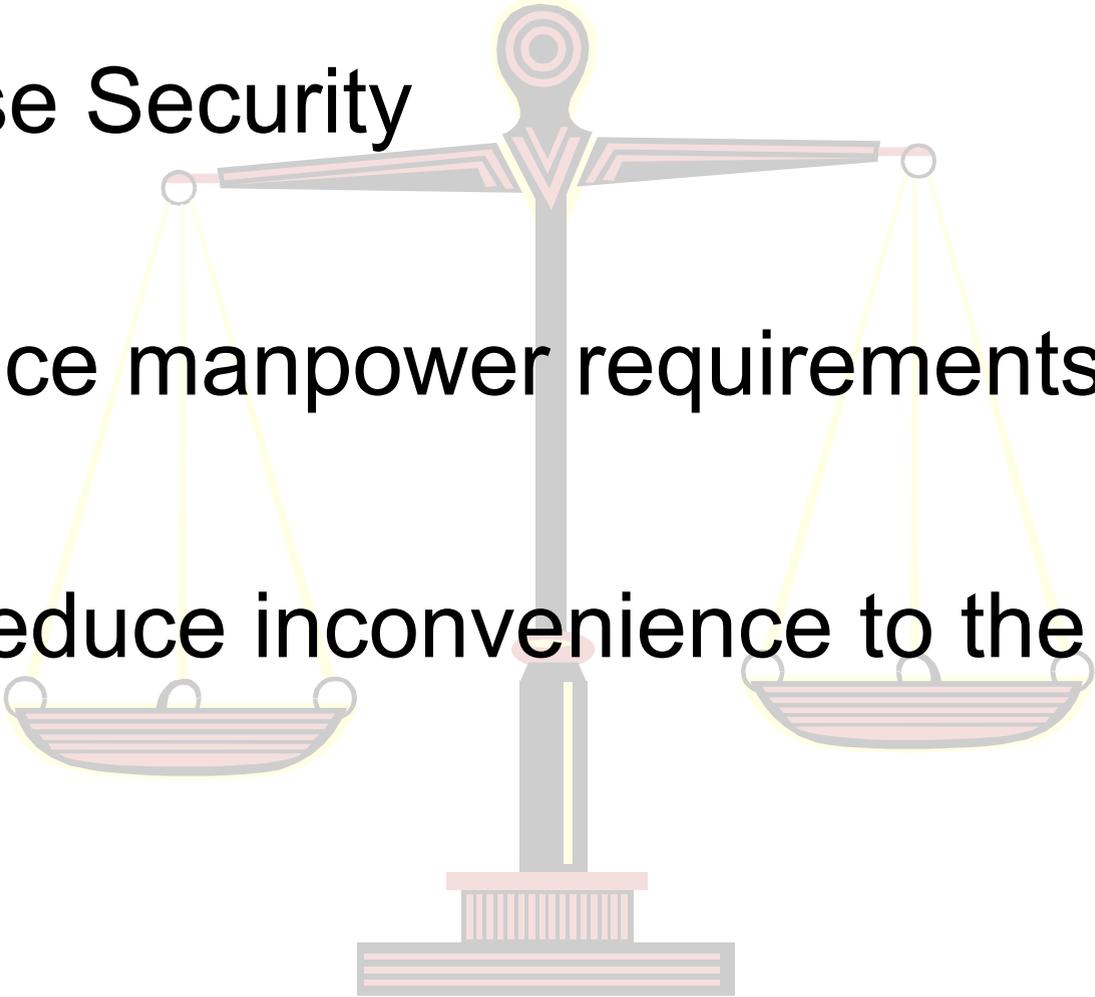
Framing the Discussion

- eBusiness Operations Office implements pilots across the Department of the Navy (DON)
- We do not own the physical security domain
- Physical security community working towards developing comprehensive policy across the enterprise

The Requirements Cycle



Access Control Rudder Orders

- 
- ✓ Increase Security
 - ✓ Reduce manpower requirements
 - ✓ Reduce inconvenience to the member

Balancing Requirements

Increase Security



- **Unmanned** (building, doors, gates, brows): biometric validation between reader & smart card token



- **Manned** (gates, brows): secure access to picture, personal information and access authorities from a centralized database

Eliminate the Reliance on Paper Tokens

Reduce Manpower Requirements



- Technology for eliminating the need for manned sentries



- Centralized access control monitoring

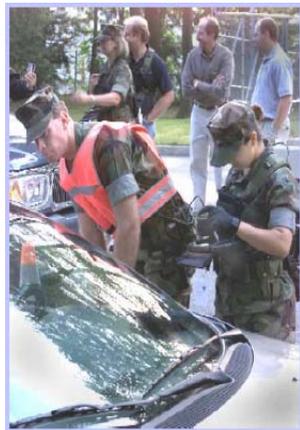


- Increased effectiveness of pass and ID staff



Streamlined Functions

Reduce Inconvenience to the Member



Passes distributed at point of entry via centralized physical security system

Quicker access when at increased Force Protection levels



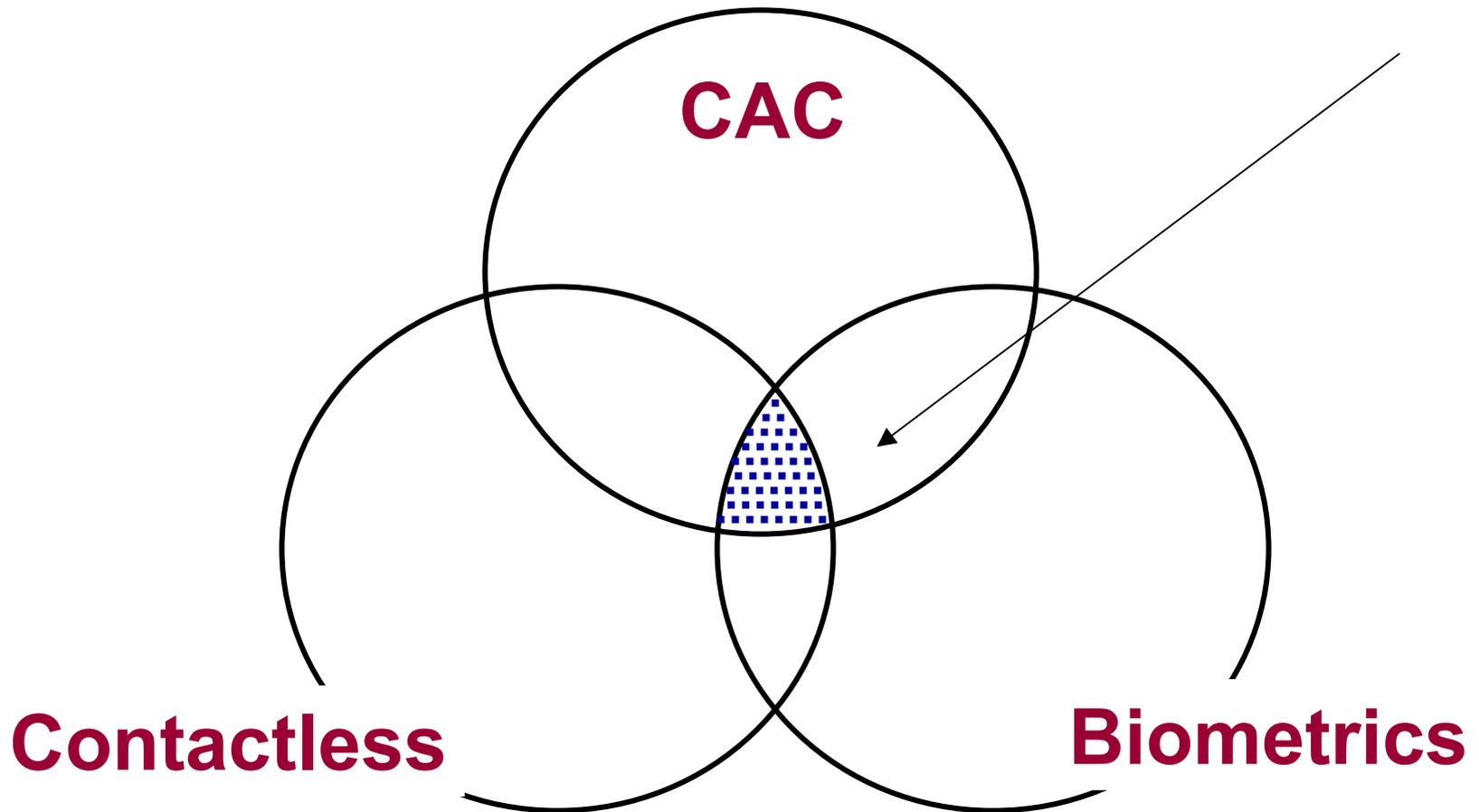
DoD Retiree and dependents stored with the system for a number years

DON eBusiness Operations Office

*Putting
theory into
practice*

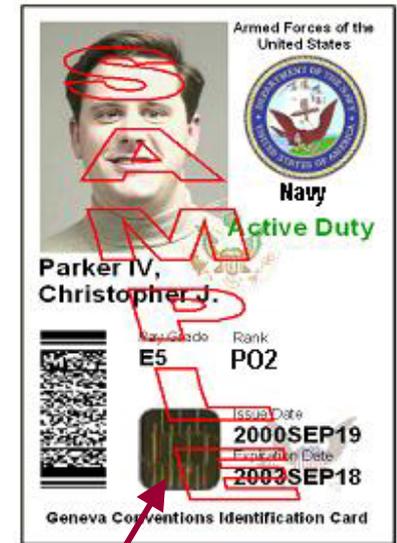
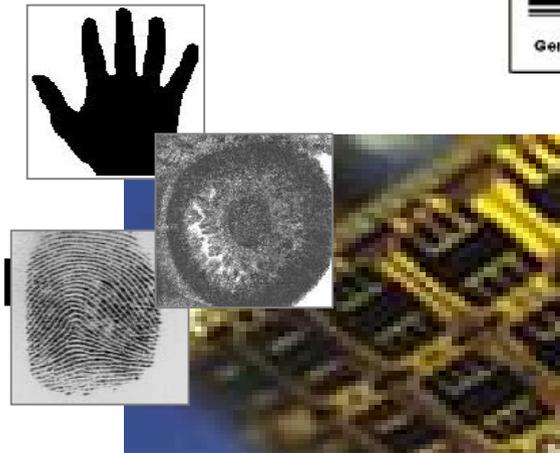


The Intersection of Technology



Next Generation CAC Physical Access Control Pilots

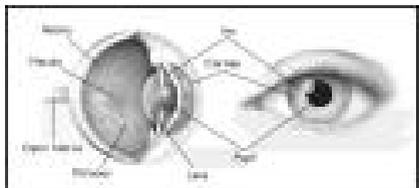
- Utilize contactless chip technologies
- Store biometric templates
- Interface with existing backend software
- Establish standards
- Enhance access systems



Space and Naval Warfare Center, Norfolk *completed*;
Pacific Command *commenced* 14 April 03

Physical Access Security

Biometric Options



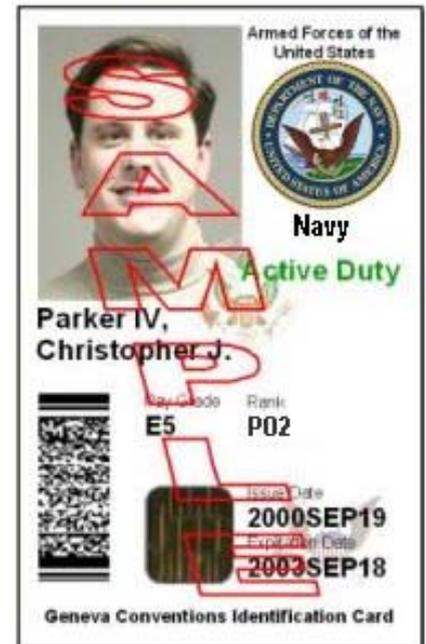
Fingerprint

Hand Geometry

Iris Scan

Facial Recognition

Voice Recognition

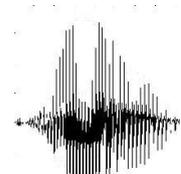
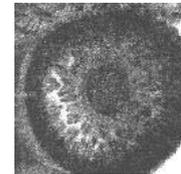


Tools in Our Toolkit

SPARWAR System Center- Norfolk



- Store fingerprint as biometric template using a contactless chip
- Interface with existing physical access/backend software
- Provide two factor authentication for individuals attempting physical access
- Pilot ran Aug – Nov 2002, still in use ... Opportunity Analysis on the eBusiness website



- ✓ Enhance secure personal ID systems
- ✓ Improve identity verification

U.S. Pacific Command

- Utilization of contactless technology
- Multiple biometric hardware devices
 - Hand geometry
 - Fingerprint
- Approximately 350 personnel, 15 doors
- Two templates stored on contactless card
- Integrate unique coding to eliminate need for separate command badge
- Pilot ran Apr – Jun 2003, still in use ...
Opportunity Analysis in development



What's next?

The screenshot shows a web browser window with the address bar containing www.don-ebusiness.navsop.navy.mil. The page header includes the Department of the Navy eBusiness Operations Office logo and the slogan "Creating The Future Today". The main content area is titled "Card Management" and contains the following text:

Card Management was established under the DON eBusiness Operations Office to be the single Navy activity for centralized operational control of existing and future card programs and selected electronic transaction systems.

Consolidating these functions and systems provides a consistent and integrated management approach, ensures a single voice to our Navy and Marine Corps customers and business partners, delivers goods and services more efficiently, and facilitates the evolution to future technological solutions.

Purpose

By providing a single focal point for integrated card-enabled and electronic transaction system solutions. Through technology infusion and best business practices, we provide the distributed computing platform for secure identification, authentication and encryption, and the efficient procurement of products and services to support the DON's deployed combat capability.

The mandate includes:

- communicating the purpose, policies, and benefits of each card solution to encourage and promote permanent improvement of DON processes

Overlaid on the screenshot are three bullet points:

- Share lessons learned from our access control pilots
- Support development of comprehensive physical security policy
- Way ahead should be requirements-based!

QUESTIONS?

Contact:

Gary Bruner

DON eBusiness Operations Office

(717) 605 – 9370

gary.bruner@navy.mil

www.don-ebusiness.navsop.navy.mil